IN THE CLAIMS

Please cancel claims 1-30 and add the following new claims:

- 1. 30. (Canceled)
- 31. (New) A golf ball comprising:
 - a core, wherein the core comprises at least one layer formed of a composition comprising at least one rubber, a metal salt of an αβ-unsaturated carboxylic acid, an initiator, and at least one thermoplastic material having a Vicat-softening temperature of at least about 38° C selected from the group consisting of a copoly(ether-ester), copoly(ether-amide), copoly(ester-amide), copoly(urethane-ether), copoly(urethane-ester), maleic anhydride grafted styrene-ethylene-butylene-styrene copolymers, and mixtures thereof; and a cover disposed about the core, wherein the cover at least one layer comprising an ionomer, balata, or urethane material.
- 32. (New) The golf ball of claim 31, wherein the cover has a thickness of about 0.03 inches or greater.
- 33. (New) The golf ball of claim 31, wherein the cover has a hardness of about 40 Shore D or greater.
- 34. (New) The golf ball of claim 31, wherein the cover comprises an inner cover and an outer cover.
- 35. (New) The golf ball of claim 34, wherein the outer cover comprises a thermoset castable reactive liquid material.
- 36. (New) The golf ball of claim 34, wherein the inner cover comprises an ionomer.
- 37. (New) The golf ball of claim 36, wherein the ionomer comprises at least one E/X/Y copolymer, wherein E comprises ethylene, wherein X comprises a softening comonomer, and wherein Y comprises at least one acrylic or methacrylic acid neutralized to 100 percent.

- 38. (New) A golf ball comprising a core and a cover, wherein the core comprises at least one layer formed of a composition comprising a rubber, a metal salt of an $\alpha\beta$ -unsaturated carboxylic acid, an initiator, and a thermoplastic material having a Vicat-softening temperature of at least about 38° C, and wherein the cover comprises at least one layer comprising an ionomer comprising acid moieties neutralized to 100 percent.
- 39. (New) The golf ball of claim 38, wherein the thermoplastic material has a Vicat softening temperature of at least about 50°C.
- 40. (New) The golf ball of claim 38, wherein the thermoplastic material has a Vicat softening temperature of at least about 60°C.
- 41. (New) The golf ball of claim 38, wherein the thermoplastic material comprises a block polymer selected from the group consisting of copoly(ether-ester), copoly(ether-amide), copoly(ester-amide), copoly(urethane-ether), copoly(urethane-ester), maleic anhydride grafted styrene-ethylene, butylene-styrene copolymer, and mixtures thereof.
- 42. (New) The golf ball of claim 38, wherein the rubber material is selected from the group consisting of polybutadiene, polyisoprene, ethylene-propylene rubber, styrene-butadiene, styrene-propylene-diene rubber, a polymer of ethylene-propylene diene monomer, and combinations thereof.